performing a second annealing to convert the first-reacted silicide region into a second-reacted silicide region, by reaction of the supplemental silicon layer with the first-reacted silicide region,

wherein after the second annealing, a silicon layer remains between the secondreacted silicide region and the insulating layer.

24. A method for fabricating a semiconductor device, comprising:

providing a semiconductor substrate which has a silicon region located on a insulating layer formed in the semiconductor substrate;

forming a metal layer on the silicon region of the semiconductor substrate;

performing on a first annealing on the semiconductor substrate to form a firstreacted silicide region;

forming a supplemental silicon layer on the first-reacted silicide region;
doping an impurity, which is a same conductive type as the silicon region, into
the supplemental silicon layer; and

performing a second annealing to convert the first-reacted silicide region into a second-reacted silicide region, by reaction of the supplemental silicon layer with the first-reacted silicide region.

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